

Serial No.: 09/882,308

IN THE TITLE

Please amend the title to read as follows:

High Performance System for the Parallel and Selective Dispensing of Micro-Droplets,
and Transportable Cartridge and Dispensing Kit Using Said System

Serial No.: 09/882,308

IN THE SPECIFICATION

On page 7, paragraph beginning on line 12.

-in Figure 17, a cross section view of a dispensing system according to the invention applied to the percutaneous administration of drugs [[.]] ; and

Please add the following paragraph between lines 14 and 15.

-in Figure 18, a schematic view of the micro-ducts shown in different layers of the membrane.

On page 10, paragraph beginning on line 12.

The set of actuating means is managed by a control unit (~~not shown~~) 100, see Figure 13a, programmable through a coupling or multiplexing network, and its implementation is [[know]] known to man of the art. Such a unit allows to trigger at the same time or successively the suction or the dispensing of a sole reagent or of various reagents through the wells.

On page 14, paragraph beginning at line 7.

The micro-ducts may either be etched on the substrate or on the membrane. It is possible to make the membrane or the substrate with a multi-layered structure allowing the tri-dimensional integration of the micro-ducts in different layers. Figure 18 shows micro-ducts (20) arranged in membrane 3 in different layers, each micro-duct coupled to a respective well (4).

Serial No.: 09/882,308

On page 14, paragraph beginning at line 25.

Furthermore, other adaptations are possible to satisfy specific applications. For example, for test cell screening in pharmacology, with reference to Figure 15, the micro-bowls 80 of a titration plate 81 are equipped with polarized electrodes 87, and means 88 to apply a potential difference to the electrodes in order to generate a polarization in the cell and favor the therapeutical effect on the cells. The cell reactivity test can be optical, that is by fluorescence and/or spectroscopy, or electrical by electrical or electromechanical impedance measurement. It is also possible to apply, inversely, a potential difference of adapted value among these electrodes to generate a polarization in the cells and thus favor the therapeutic effect on the cells.

Serial No.: 09/882,308

In THE DRAWINGS

In response to the Examiner's objection to the drawings, corrected drawings are submitted herewith for the Examiner's approval. Figure

The corrections to the drawings are believed to respond to each of the Examiner's objections but for the objection to the electrodes of claims 15 and 26 which are already shown in Figure 15. In more detail, Figure 13a now shows the control unit mentioned in the specification. Figure 15 shows means to apply the potential to the electrodes 87. New Figure 18 illustrates the tri-dimensional micro-ducts described on page 14 of the specification.

Applicant also traverses the Examiner's requirement for a drawing illustrating a concentric matrix or a spiral matrix. First, the drawings show a matrix as is called for in claim 2, and it is believed that this shows that which is claimed. Further, it is submitted that it not necessary for understanding of the invention to merely show wells in concentric or spiral form, and drawings of this nature are not believed to be required. If the Examiner insists on submission of such a drawing, Applicant will be glad to supply one.